

LIST OF INFORMATION DISCLOSED BY APPLICANT

(Use several sheets if necessary)

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ATTY. DOCK	ET NO	•	SERIAL NO.		FILING DAT	TE				
09328.1050	84 K	MRA 37	10/706,450		November	12, 2003				
APPLICANT					GROUP				<u>-</u>	<u> </u>
Rosencrano	e et a	l			1731					
				U.S. PA	TENT DOC	UMENTS	;			
EXAMINER INITIAL		DOCUMENT NUMBER	DATE		NAME			CLASS	SUBCLASS	FILING DATE IP PPROPRIATE
04	AA	6,540,870	04/01/03	Laurila-I	Lumme et al.					
	ΑВ	6,376,455	11/22/00	Friedli e	t al.					
	AC	6,312,559	11/06/01	Irinatsu	et al.		``			
	AD	6,210,526	08/24/99	Pohlen						
	AE	5,968,313	05/07/97	Bentley						
	AF	5882476	05/05/95	Evans et	al.					
V	AG.	5,817,212	10/06/98	Jobbins	et al.	•	;			
el	AH	5,837,099	01/28/97	Borchard	dt					
	AI	5,811,381	10/10/96	Emalfart	et al.			 	_	
	AJ	5,807,464	02/03/97	Jobbins	et al.	:				
	AK	5,801,135	09/01/98	Miyauch	i et al.		;	ı		
	AL	5,801,134	10/12/95	Miyauch	i et al.					
	AM	5,725,730	03/10/98	Smolka	et al.					
	AN	5,712,233	01/22/96	Rasheed				1		
d	ÄO	5,696,292	12/09/97	Cody et	al.	DATE C	;		11	
EXAMINE			_ 2			DATE C			9/1/03	
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FORM	PTO-1449,	Adapted

		LIST OF	INFOR			CLOSEI f necessary,		APPI	LICANT			
ATTY. DOC	KET NO).	SERIAL NO.		FILING DA	TE	-					
09328.105	084 K	MRA 37	10/706,450		November 12, 2003							
APPLICANT					GROUP							
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE		NAME			CLASS	SUBCLASS	FILING DATE IF PPROPRIATE		
U	ВА	5667927	02/23/96	Kubota e	t al.							
h	ВВ	5,651,861	07/29/97	Larson et	t al.							
	вс	5,637,191	06/10/97	Langley	et al.		``					
	BD	5,622,597	04/22/97	Callen et	al.							
	BE	5,601689	02/11/97	Sacripan	te et al.							
	BF	5,540,814	07/30/96	Curtis et	al.					,		
1/	BG	5,527,426	05/05/94	Marwah	et al		ì			1		
cL	вн	5,512,134	07/29/94	Daute et	al.							
	BI	5,505,817	10/19/93	Rodrigue	z et al.							
	ВЈ	5,442,082	12/16/94	Uphues e	et al.		<u>.</u>					
	вк	5,429,716	06/28/93	Hache et	al.							
	BL	5,417,808	08/23/95	Okamoto	et al.							
	вм	5,415,733	05/16/95	Robinsor	n et al							
V	BN	5,401,360	. 09/09/92	Galland								
w	ВО	5,384,010	08/27/93	Hou et al			,					
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FORM PTO-1449, Adapted

		LIST OF	INFORN	MATION DISCI (Use several sheets if n		' APPI	LICANT	
ATTY. DOC	KET NO).	SERIAL NO.	FILING DATE	3			
09328.105)84 K	MRA 37	10/706,450	November 1	12, 2003			
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	;	CLASS	SUBCLASS	PILING DATE IF PPROPRIATE
de	CA	5,362,363	04/20/92	Smolka et al.				
	СВ	5,346,543	09/13/94	Hirakouchi et al.				•
	сс	5,342,483	12/10/92	Hwang				
	CD	5,332,474	01/19/93	Maxham				
	CE	5,308,448	02/08/93	Behler et al.				
W	CF	5,259,969	09/16/91	Srivatsa et al.				
20	CG	5,288,369	11/22/91	Ishibashi				
	СН	5,286,346	02/15/94	Engelskirchen et al.				
	CI	5,282,928	05/29/92	Takahashi				
	CJ	5,258,099	07/17/92	Borchardt				
	СК	5,234,545	04/24/92	Fabry et al				
	CL	5,228,953	10/30/91	Bast et al	<u>`</u>			
	СМ	5,227,019	07/13/91	Borchardt				
V	CN	5,225,046	07/06/93	Borchardt				
<i>e</i> 2	со	5,221,433	01/13/92		DATE CONSID	EDED	11	
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE		NAME		CLASS	SUBCLASS	FILING DATE IF PPROPRIATE			
pl	DA	5,102,500	04/07/92	Darlingto	on							
1	DB	4,971,656	03/31/89	Lehmann	et al.							
	DC	4,959,123	02/02/80	Lehmann	et al.							
	DD	4,820,379	04/11/89	Darlingto	n							
	DE	4780179	01/27/86	Clement			,					
\bigvee	DF	4,561,933	04/15/85	Wood et	al.							
cl	DG	4,483,742	02/25/83	Bridle								
	DH	4,013,505	05/30/75	Balcar et	al.							
	DI	587,099	07/27/1897	Levi								
	DJ	RE 36,424	12/07/99	Clement								
·	DK	2003/0157595	06/03/99	Emalfarb	et al							
	DL	2003/0125534	07/03/03	Callen et	al.							
	DM	2003/0106654	06/12/03	Li et al.			`					
1/2	DN	2002/0157798	01/16/02	Franks et	al.		<u>'</u>					
04	DO	2002/0066880	08/07/01	Robinsor	et al.	2.000	Lauren					
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	EA	20020025295	06/13/01	Kim						
	<u> </u>		F	OREIGN P.	ATEN	T DOCUMENTS			TDAME	LATION
		DOCUMENT NUMBER	DATE	COUNTRY	r	NAM	Е		YES	NO.
CL	ЕВ	98/45530	10/15/98	wo		Larson				
CL	EC	97/48850	06/17/97	wo		Robinson et al.				*
60	ED	97/46754	12/11/97	·WO		Irinatsu et al.				
ce	EF	97/46753	12/11/97	WO		Irinatsu et al.				
	EG	97/32076	- 09/04/97	wo		Wallberg et al.				
CL	ЕН	97/22750	12/13/96	wo		Borchardt				
ch	EI	97/14844	04/24/97	wo		Rasheed				
C	EJ	97/22751	06/26/97	wo		Larson et al.				
pu	EK	96/11262	04/18/96	wo		Schülein et al.				
CL	EL	96/31646	10/10/96	wo		KAO Corporation				
ch	ЕМ	96/13574	10/23/95	wo		Duniop et al.				
or	EN	95/27779	04/11/95	wo ·		Dunlop et al.				
66	ЕО	95/26398	03/27/95	wo		Olsen et al.				
ch	EP	95/15296	11/29/94	wo		Werres	· · · · · ·			х
64	EQ	95/12026	05/04/95	WO		Stockwell et al.				
CV	ER	95/09909	10/04/94	wo		Olsen et al. DATE CONSID				

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	7			OREIGN P	ATENT DOCUMENTS	1 TRANS	LATION				
		DOCUMENT NUMBER	DATE	COUNTR	Y NAME	YES	NO.				
cl	FA	95/00699	06/06/94	WO	Wallberg et al.						
cl	FB	93/22491	04/23/92	WO	Cook et al.						
el	FC	91/03599	08/30/90	WO	PÄÄRT et al.						
CL	FD	90/05805	05/31/90	wo	Fischer et al.		X				
	FE	0834614	04/08/98	EP	Irinatsu						
18	FF	0726246	08/14/96	EP	Cody et al.						
CE	FG	0741203	04/26/96	EP	Evans et al.						
el	FH	0717144	06/19/96	EP	Jobbins et al.						
CL	FI	0657578	12/06/94	EP	Schmid et al.		Х				
66	FJ	0507325	10/07/92	EP	Hamaguchi						
ol	FK	0492507	07/01/92	EP	Ishibashi		 				
0	FL	0307024	03/15/89	EP	Jansen						
oc	FM	0013027	12/24/79	EP	Hornfeck et al.		X				
oc	FN	0013758	12/24/79	EP	Hornfeck et al.		X				
ci	FO	2003012909	06/14/01	JР	Tetsuya et al.						
de	FP	2003073987	09/03/01	JР	Mikiaki et al.						
cc	FQ	1140781	05/25/99	JP	Kao Corp.						
CL	FR	10219574	08/18/98	JР	Irinatsu ;						
	FS	10102390	04/21/98	JP	Irinatsu						
lu	FT	10088489	04/07/98	ЛР	Irinatsu						

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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09328.105	084 KI	MRA 37	10/706,450		November 12, 2003						
APPLICANT					GROUP						
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	1 1		F(OREIGN P	TENT DOCUMENTS	TRANS	LATION				
_		DOCUMENT NUMBER	DATE	COUNTRY	NAME	YES	NO.				
CL	GA	10053988	02/24/98	JP	Irinatsu						
ch	GB	07145582	11/22/93	JР	Tokiya et al.		<u> </u>				
er	GC	07189154	12/24/93	JP	Tokiya et al.						
cu	GD	06228894	01/29/93	JP	Tadashi et al.						
	GE	06192986	07/12/94	JP	Lion Corp						
	GF	59150191	08/28/84	JP	Raion KK						
	GH	05025789	07/16/91	JР	Takanobu et al.						
	GI	04202879	07/23/92	JР	Nippon Kami Pulp Dendyusho K.K.						
\bot	GK	03193987	08/23/91	JР	Hideaki et al.						
\perp	GL	02160984	12/09/88	JР	Bare et al.						
	GM	01006190	01/10/89	JP	Fujisawa Pharmaceutical Co						
	GN	19508936	09/19/96	DE	Oppenlaender et al.						
\perp	GO	4007598	09/12/91	DE	Bohlander et al.						
\perp	GP	4007597	09/12/91	DE	Bohlander et al.						
	GQ	4007596	09/12/91	DE	Bohlander et al.	ļ					
	GR	2856845	07/17/80	DE	Hornfleck et al.						
\bot	GS	59150191	08/28/84	JР	Raion KK						
1/	GT	2001288395	10/16/01	JР	Sakura Color Products Corp.	ļ					
<u> </u>	GU	2001355189	11/26/01	JР	Nikka Chemical Industry Co. Ltd.						
ph	GV	10338828	12/22/98	JΡ	Shachihata Ind. Co. Ltd.						

FORM PTO-1449, Adapted LIST OF INFORMATION DISCLOSED BY APPLICANT (Use several sheets if necessary) ATTY, DOCKET NO. FILING DATE SERIAL NO. 09328.105084 KMRA 37 November 12, 2003 10/706,450 APPLICANT Rosencrance et al. 1731 FOREIGN PATENT DOCUMENTS TRANSLATION DOCUMENT NUMBER DATE COUNTRY NAME YES NO. HA 06049791 02/22/94 JP Yoichi HB 08120582 05/14/96 ЛР Yoshitaka HC 10101982 04/21/98 JР Hiroyuki HD 11100784 04/13/99 JР Irinatsu HE 2001279588 10/10/01 JP Akinobu 06/21/02 HF 2002173884 Љ Akinobu Н 58149394 09/05/83 JP Kao Corp. Ш 11001883 01/06/99 JР Takashi HK 2001011786 JP Kao Corp. 01/16/01 cl HL CS 205602 05/29/81 Kostka HM 2087745 02/04/72 FR Hausner HN 278679 12/10/97 SK Vlasta 07/06/94 CN НО 1088952 Yicai Elena et al. : HP 0926129 05/07/89 SU HO 266815 01/12/90 CS **Tomas** HR 10102391 04/21/98 JP Irinatsu HS 19631150 02/05/98 DE Schiessling et al. нт HU H۷ **EXAMINER DATE CONSIDERED** EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in

conformance and not considered. Include copy of this form with next communication to applicant.

Sheet 9 of 9 FORM PTO-1449, Adapted LIST OF INFORMATION DISCLOSED BY APPLICANT (Use several sheets if necessary) FILING DATE ATTY. DOCKET NO. SERIAL NO. 09328.105084 KMRA 37 10/706,450 November 12, 2003 APPLICANT 1731 Rosencrance et al. OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.) PARK, K, PARK, J, and LEE JH, "Modification of cellulose with polyalkylene oxide allyl ester-maleic acid IA anhydride copolymer and its application to the pulp and paper industry," J. Appl. Polym. Sci., vol. 84, no.5, 2 May 2002, pp. 894-899. Wu, Guohua, DENG, Yulin, ZHU, Junyong, "Collector chemistry in flotation deinking of photocopy papers," Progress in Paper Recycling (1998) 7(4), 20-27, Institute of Paper Science and Technology, Atlanta, GA, ISSN: 1061-1452. DENG, Y., "Flotation Deinking Chemistry: Current Research Program at IPST," IPST, Technical Paper Jan. 1998. Series, 699, (Atlanta, GA), p. 11. LARSON, E., "Effects of polymeric additives in flotation of water based pigments during recycling of newsprints", 1997 Recycling symposium, Chicago, IL, USA, Apr. 14-16, 1997, pp. 167-173, Atlanta, GA, USA: TAPPI Press, 1997. SANTOS, A., CARRE, B., and RORING, A., "Contribution to a Better understanding of the Basic Mechanisms Involved in the Pulping and Flotation of Offset Ink Particles", 1996 Recycling Symposium, New Orleans, LA, USA, Mar. 5 - 7, 1996, TAPPI Press, pp. 339-348. XIA. Z., BEAUDRY, A., and BOURBONNAIS R., "Effects of Cellulases on the Surfactant-Assisted Acidic Deinking of ONP and OMG", Prog. Pap. Recycling, Vol. 5., no. 4, pp. 46-58. August, 1996 TURRADO, S.J., GONZALEZ, R.L., RAMIREZ, P.R., Influence of Surfactants in Deinking, Invest. Tec. IG Pap., vol. 32, no. 123, Jan. 1995, pp 103-123, ISSN: 0368-0789. EPPLE, M., BERG, J.C., The Effect of Adsorbed Surfactants on the Electrostatic Properties and Wettability of IH a Photocopy Toner, Prog. Rap. Recycling, vol. 3, no. 2, Feb. 1994, pp. 52-59, ISSN: 1061-1452. SCHMITT, G.D., DOSHI, M.R., "1991 Recycling Patents Review", Prog. Pap. Recycling, vol.1, no. 3, May IJ 1992, pp. 74-77. ΙK SUESSS, H.U. SCHUMACHER, W., NIMMERFROH, N. HOPF, B., REINOLD, A., "Two-Stage Alkaline-Acidic Flotation for Eliminating Difficultly Removable Printing Inks from Waste Paper", Papier, March 1991, Vol. 45, no. 3, pp. 89-96. PUTZ, H.J. SCHAFFRATH, H.J., GOTTSCHING, L., "Deinking of Oil- and Water-born Printing Inks - A IL New Flotation Deinking Model", Paper presented at 1st Research Forum on Recycling held 29-31 Oct. 1991 at Toronto, Canada, pp 183-190 [Montreal, CA: Canadian Pulp and Paper Association, 1991, pp. 223. HORNFECK, K., LIPHARD, M. SCHRECK, B., "Investigations of interfaces and technological tests about IM flotation of printing inks and fillers", Wochenblatt fuer Papierfabrikation (1990), 118(21), 935-41, ISSN:

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Annual, pp. 15-17.

BALOS, B., PATTERSON, J., "Flotation Deinking Chemistry", PaperAge, (1990) no. 1990 Recycling

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Substitute for form 1449A/PTO	Complete if Known			
	Application Number	10/706,450		
PENFORMATION DISCLOSURE	Filing Date	November 12, 2003		
STÄREMENT BY APPLICANT	First Named Inventor	ROSENCRANCE, Tomás et al.		
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1 3 Eluse as many sheets as necessary)	Examiner Name	ALVO, Marc S.		
Sheet 1 of 1	Attorney Docket Number	09328.105084		

	U.S. PATENT DOCUMENTS												
		. U.S. Patent	Document	Name of Patentee or	Date of	Pages, Columns, Lines, Where							
Examiner Initials *	Cite No. 1	Number	Kind Code ^{2 2} (if known)	Applicant of Cited Document	Publication of Cited Document MM-DD-YYYY	Relevant Passages/Relevant Figures Appear							
CU	AA	5,227,0	19	BORCHARDT, John K.	07/13/1993								
a	AB	6,544,3	83	ROBINSON et al.	04/08/2003								

	FOREIGN PATENT DOCUMENTS											
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ex	AC		WO 93/22491		COOK et al.	11/11/1993						

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Signature		Considered	11/05

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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ³ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.